

11. The measurement of serum activity of lipase for diagnosis of pancreatic disease relies on the detection of
- A. an artificial glyceride      B. a colored chromophore      ☒ C. an acid-base indicator      D. the enzyme

*Describe three different types of metabolic pathways and explain what a coupled reaction is*

Match each pathway below with the proper description on the right:

12. Linear pathway C      A. serial breakdown or assembly in which a repetitive cycle removes or adds a fragment  
13. Spiral pathway D      B. serial conversion that relies on the coalescence of two molecules, one of which regenerates  
14. Circular pathway A      C. serial conversion of substrates in which each product is the substrate of the next reaction
15. Two biochemical reactions are said to be coupled if

- A. they are both spontaneous  
B. they are both nonspontaneous  
☒ C. one is spontaneous and the other is nonspontaneous and the sum of their free energies is positive  
D. one is spontaneous and the other is nonspontaneous and the sum of their free energies is negative

*Define the terms metabolism, catabolism, and anabolism, and describe the role of ATP and coenzymes in metabolism*

16. The type of bond in ATP that releases the **MOST** amount of energy when hydrolyzed is its phosphoester bond: **TRUE** or **FALSE**

*Name the products formed during the digestion of polysaccharides, triglycerides, and proteins and state where the digestion of each takes place*

17. Regarding the digestion of foodstuffs:

- A. begins in the mouth for carbohydrates and lipids, but NOT proteins  
B. ultimately yields oligosaccharides, diglycerides, and free amino acids, all of which are then absorbed into the lymphatics  
C. can produce incompletely hydrolyzed proteins and oligopeptides  
☒ D. involves emulsification of lipids by the action of cholesterol before being hydrolyzed

18. Upon absorption into the cells of the small intestine, fatty acids and monoglycerides or glycerol are re-assembled into triglycerides before incorporation into lipoproteins: **TRUE** or **FALSE**

*Identify the initial reactant and final products of glycolysis and describe how this pathway is controlled*

19. The product of glycolysis whose sole function in metabolism is the **DIRECT** release of free energy is

- A. acetyl-CoA      B. pyruvate      C. NADH      D. ATP

# Investigating Phototropism Biozone Worksheet Answers

**Ying Liu**



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